

# WILSONWERKS ARCHIVES

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## OPERATING SUGGESTIONS

**NEGATIVE CARRIER:** Individual negative carriers are available for most popular negative sizes.

**FOCUSING KNOB:** Fine focusing is done with Focusing Knob. Always use for composing and focusing, a sheet of paper the same thickness as the paper on which you are making your prints.

**HEAT FILTER:** Available as an accessory. Heat Filter fits in Filter Drawer and provides an extra measure of protection of negatives from heat.

**FILTER DRAWER:** For color printing, use standard acetate filters supplied by the various manufacturers of printing papers such as Kodak CP series.

**SAFETY FILTER:** To see the image directly on the sensitive paper for double exposures, montages or similar techniques, make use of the red Safety Filter. It renders the light safe for black-and-white paper emulsions. Never substitute Safety Filter for the lamp switch, as leaving the enlarger in too long can cause it to overheat.

**FOR FLOOR ENLARGEMENTS:** A way of making king size enlargements is to rotate the column 180 degrees, first taking the precaution of weighting down the baseboard, and to project on the floor.

### Use the Color Filter Drawer for Black-and-White Prints too

Experts advise the use of color filters for Ektacolor, and similar processes above the image path-not below the lens. In this way you avoid any loss of definition caused by the filters. This is the purpose of the color filter drawer. It accepts standard filters in acetate or gelatin sheets 3 inches square. The same technique can be used in monochrome printing with variable contrast emulsions. Filters for Polycontrast and similar enlarging papers can be obtained in sheet form and used in the filter drawer, thus insuring the sharpest possible results from your negatives.

## MAINTENANCE

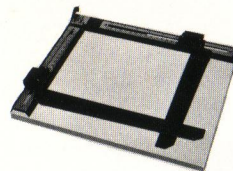
1. Occasionally lubricate Arms through oiling holes for smooth movement.
2. Wipe up Column and other chromed parts occasionally with an oily cloth to prevent them from rusting due to chemicals and dampness in the darkroom.
3. Use a Stable Work Surface: Great care has been exercised to make your Bogen 22A Special stable and vibration free with accurate alignment of baseboard and film plane. For best results, mount your enlarger on a sturdy, level table where it can rest firmly. Avoid touching the enlarger while making exposures.
4. In the event that condensers become fogged due to dampness, clean them up with chambray or soft linen cloth, and spray with an anti-static preparation.
5. Don't wet Baseboard. Never place chemicals or wet prints on Baseboard.
6. Keep your enlarger clean: Before every printing session check the lens, the negative carrier and the under side of the condensers for dust and particles of grit. Always use a blower brush for cleaning carrier and glass surfaces such as the lenses. Use of anti-static sprays or brushes is preferred. When not in use, the enlarger should be covered. If your darkroom is located in a damp area, store the lens separately from the enlarger in a dry place.

## How to get the Most out of your BOGEN 22A Special

Most enlarging lenses offer a wide range of opening. However, the best results and maximum sharpness are obtained in the range from f 5.6 to f 11. Therefore, focus with your lens wide open, then stop down to f 8 for making test exposures to determine the proper time for that lens opening. The extreme settings of the enlarging lens should only be used when especially dense negatives require too long an exposure time or excessively thin negatives produce over-exposed print.

## BOGEN ENLARGING EASELS

You can do better work if your paper is held flat and is properly masked by a high quality enlarging easel. Ask your dealer about LPL All Metal Easels. Available in four adjustable sizes, 5" x 7", 8" x 10", 11" x 14" and 16" x 20", each with a wide range of adjustments possible, and a quick loading four size model (to 8" x 10").



## MAGNIFICATIONS

Lens	Min.	Max.	Off Baseboard
38 mm	2.3 X	16.5 X	unlimited
50 mm	2.6 X	12.2 X	
75 mm	1.9 X	7.3 X	

The above magnifications are on baseboard.

**BOGEN**

**22A SPECIAL**



Imported from Japan by

**BOGEN PHOTO CORPORATION**

Englewood, N.J. 07631

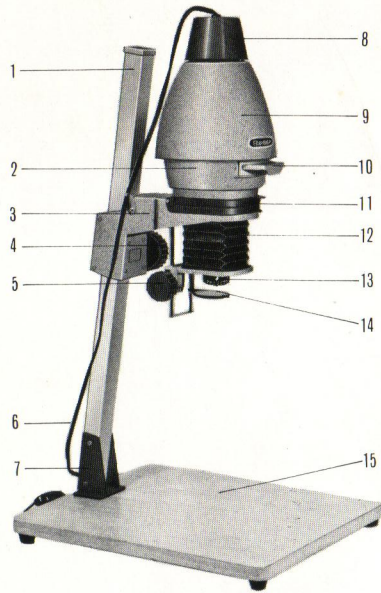
**PRECISION ENLARGER**

for

**6 x 6 cm (2-1/4" square)**

**& smaller negatives**

## ASSEMBLY INSTRUCTIONS

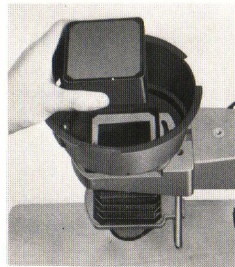


1. Column
2. Lower Lamphousing
3. Arm
4. Elevating Knob
5. Focusing Knob
6. Line Cord
7. Column Socket
8. Socket Cover
9. Upper Lamphousing
10. Filter Drawer
11. Negative Carrier
12. Bellows
13. Enlarging Lens
14. Safety Filter
15. Baseboard

1. The baseboard holds four fixing bolts inserted halfway from its back. Screw these bolts completely so that their ends protrude rigidly from the upper surface of baseboard. Match the four holes of column to these bolts and set up the column firmly by tightening with nuts with the wrench provided.



2. Place double condenser assembly in lower lamphousing and seat in the recess for it above the negative carrier opening.



3. Place retaining plate with filter drawer guide facing upwards into position over the condenser, make sure the retaining plate is seated properly, and fasten with wing nuts supplied.



4. Insert color filter drawer in place. Note that a heat absorbing filter for use with color printing materials may be ordered as an accessory.



5. Insert negative carrier in position with larger tab facing upwards.

To remove negative carrier push up on lower lip and pull carrier straight-out.



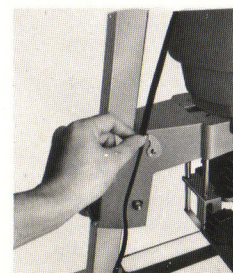
6. Attach safety filter to the shaft under the bellows.



7. Install a 75 watt Opal Enlarging Lamp, #211 (not supplied with the enlarger) into the socket of the lamphousing and place the lamphouse in position with the Bogen nameplate facing front.



8. The line cord may be kept in position by slipping it under the clip as shown in photo 8. Mount your enlarging lens into the flange, and your 22A Special is ready for use.



## HOW TO MAKE PRINTS

1. Negative Carrier is designed to accept negatives either of individual frames or in strip. Place your negative emulsion side down with its edge resting against the positioning stops. Then insert Carrier into the opening in the focusing stage.



2. Always use Enlarging Easel to decide the picture size. Turn on Lamp and elevate or depress the head until image size approximately correct.



3. Open Enlarging Lens to the full aperture to permit easy focusing. Turn Focusing knob until you get the sharpest grain structure of your negative. Use of a Voss Enlarger Focus Aid is recommended.

4. The best results are obtained with the lens set in the range from f 5.6 to f 11. Use f 8 for making test exposure.



5. For scratch-free transport of your negative to the next frame, raise the upper plate of Negative Carrier to get adequate clearance.

## HELPFUL HINTS FOR FINE PRINTS

**NEGATIVE:** Cleaning each negative before you make prints should become standard procedure. Time spent in making the negative clean comes back many fold through time saved in not having to spot your enlargements.

**PAPER:** Select the most suitable paper according to tone of negative. Hard paper should be chosen for soft or low density negative.

**EXPOSURE:** Determination of correct exposure time and proper contrast is a key to fine printing results. Make test strips for each important print.